

**TEAC**

TEAC CUSTOMER SUPPORT HOTLINE (TCS)  
1300 553315  
Between Monday to Friday – AEST 8.30AM to 6PM

**TEAC**

**HDB850**

High Definition Digital Receiver



USER MANUAL

**IMPORTANT !**

WARRANTY INFORMATION INSIDE. PLEASE READ

**Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.**

**Warranty Terms & Conditions**

- TEAC warrants that this product is free from defects in material and workmanship under normal domestic use with reasonable care and skill. Maintenance and cleaning (i.e. laser head) is not covered by this warranty. The TEAC warranty only applies to TEAC products purchased, used and serviced in Australia.
- The benefits to the consumer given by this Warranty are in addition to other rights and remedies of the consumer under a law in relation to goods or services to which the warranty relates, being the Australian Consumer Law.
- Refund or replacement via your retailer is available for a period of 14 days after purchase for goods that have been inspected and determined to have a major failure. Refund and exchange is not applicable for change of mind.
- Subject to the terms herein, this warranty effectively covers the equipment as specified in the Warranty Periods Table below from the date of purchase.

TEAC PRODUCT	WARRANTY PERIOD
LED/LCD TV 32" (80 cm) and above	1 Year (In-Home Service/ Pick up Available)*
All other TEAC products	1 Year (Carry-in Service)

**In Home Service/Pick up\* Service**

This service will only be provided as part of this warranty if all the following conditions are met;

- The product is indicated in the Warranty Period Table.
- The product is within the warranty period.
- The product is located within the normal service area of the local TEAC Authorised Service Centre.

If TEAC determines that the product is not repairable on site, TEAC can complete the repair by taking the product to a TEAC Authorised Service Centre.

**Carry-in Service**

Where In-Home service/Pick up\* is not available, the purchaser is required to send the product to the nearest TEAC Authorised Service Centre for repair. In this event, proof of purchase is required to support a warranty claim. After the repair, the product will be available for collection by or return to the purchaser at a fee upon request. TEAC in-home service can be made available at a fee upon request.

- A 12-month replacement warranty is applicable to all Accessories such as Remote, Power Adaptors and Cables.
- TEAC will ensure to the best of its abilities that all required parts are made available for any required service/repair.
- TEAC Australia Pty Ltd and its Authorised Service Centres will use their best endeavours to complete product repairs within a reasonable period based on available resources and workload during the time when service is requested and performed.
- Refurbished parts may be used to repair the product. In the case of a replacement, the product may be replaced, with a refurbished unit of the same type or, if one is unavailable, a similar refurbished model with equal or better features & specifications.
- Please be advised that if the product presented for repair is capable of retaining user-generated data, the data may be lost during servicing. Customers are strongly encouraged to back up all important information/data before sending the product in for service/repair.
- Service will be provided only during normal business hours and under safety conditions and circumstances. TEAC and its authorised service agents can refuse any repair if safety, in relation to OH&S, becomes a concern to its staff or authorised service agents' personnel.
- The warranty is void and warranty claims may be refused, subject to the Australian Consumer Law, if:
  - The product was not transported, installed, operated or maintained according to manufacturer instruction, or
  - The product was abused, damaged, tampered, altered or repaired by any unauthorised persons, or
  - Product failure is due to accidents during use, installation or transit, power surges, use of defective or incompatible external devices, exposure to abnormal conditions such as excessive temperatures or humidity, or entry of liquids, objects or creatures into the product.
- No one is authorised to assume any liability on behalf of TEAC or impose any obligation on it, in connection with the sale of any equipment other than as stated in this warranty and outlined above.
- TEAC reserves the right to inspect and verify whether the product is exhibiting a major failure as claimed by customers/retailers.
- LCD dead pixel policy, please contact TEAC Customer Support Hotline on 1300 553 315 for assistance.

Please read the owner's manual carefully and ensure that you have followed the correct installation and operating procedures.

1. Please read this warranty card.
2. Keep your purchase receipt to enable you to proceed quickly in the event of a Warranty Service.
3. If you require Warranty Service, please contact the TEAC Customer Support Hotline at 1300 553 315 for assistance. Please ensure that you have the model number, serial number and purchase receipt ready when you call.

Please complete the section below and keep this information for your own records.

Owner's Name	
Owner's Address	
Postcode	
Model Name/No.	Serial No.
Dealer's Name	
Dealer's Address	
Postcode	

### **Authorised Service Centres in Major Australian Cities**

**NSW**

151 Arthur Street  
Homebush West, NSW 2140

**Queensland**

Unit 1, 320 Curtin Ave West  
Eagle Farm, QLD 4009

**Western Australia**

Unit 2, 50 Pilbara Street  
Welshpool, WA 6106

**South Australia**

11 McInnes Street  
Ridleyton, SA 5008

**Victoria**

282 Normanby Road  
South Melbourne, VIC 3205

## **Thank you for selecting a TEAC product.**

If you should require assistance with your product regarding its setup or operation, or if any difficulties arise, please call us directly for advice between Monday to Friday at 8.30AM – 6PM AEST at the

**TEAC Customer Support Hotline**  
**1300 553 315**

[teacservicessupport@awa.com.au](mailto:teacservicessupport@awa.com.au)

[www.teac.com.au](http://www.teac.com.au)

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## 1. General Information

### 1.1 Important Safety Instructions

#### Warnings and Precautions

To prevent any injuries, the following safety precautions should be observed in the installation, use, servicing and maintenance of this device. Please read this manual carefully and keep it for future reference.

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Clean only with a dry cloth.
6. Do not block any of the ventilation openings. Install in accordance with the manufacturer's instructions.
7. Do not install near any heat sources such as radiators, heat registers, stoves or other devices (including amplifiers) that produce heat.
8. Do not defeat the purpose of the polarized or grounding type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong is provided for your safety. If the provided plug does not fit into your power outlet, consult an electrician to replace the power socket.
9. Do not bend the power cord excessively. Prevent the cord from being walked on or pinched by weights placed on it.
10. Only use the attachments/accessories specified by the manufacturer.
11. Do not touch the power plug or switches with wet hands.
12. Unplug this apparatus during lightning storms or when unused for long periods of time.
13. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way.



This symbol indicates that dangerous voltage instituting a risk of electric shock is present within this device.



This symbol indicates that there are important operation and maintenance instructions in the documentation accompanying this device.

#### NOTE:

- To prevent damage which may result in fire or hazards, do not expose the device to rain or liquids.
- Do not place objects containing liquids, such as vases on the device. If drinks and liquids have been spilled on the device, unplug the device from AC power immediately and contact the TEAC Customer Hotline for assistance.
- Servicing of this device should be conducted by qualified and certified TEAC service personnel.
- The manufacturer will not be held responsible for any damage caused by modifications done on the device without authorisation from the manufacturer's authorised service agent.

### 1.2 Accessories

- 1.Remote Control
- 2.AAA batteries for remote control x2
- 3.User manual
- 4.Quick start guide
- 5.Contact card with serial number
- 6.AV cables

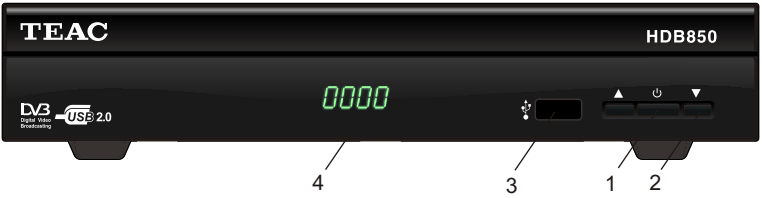
## 2. Control and Functions

### 2.1 Remote Control Unit



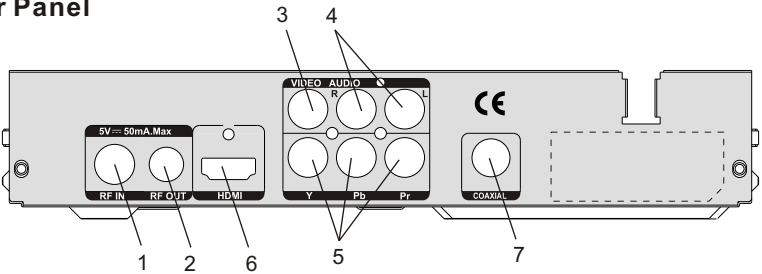
1.POWER	Turn on/off the STB
2.TV/USB	Hot key for USB function
3.MENU	Show the main menu on the screen or jump back to previous menu from sub-menu
4.MUTE	Enable or disable the audio output
5.0-9	Select channels or enter programming
6.EXIT	Exit from the current menu and stop adjusting settings
7.OK	Confirm the selected item in the menu screen or show the channel list
8.CH+/CH-(▲)(▼)	Channel change or move cursor up or down
9.VOL+/VOL-(▶)(◀)	Volume Control or move cursor left or right
10.EPG	Display the TV/Radio programme Guide
11.CH.FAV	Display the favourite list
12.AUDIO	To set the R/L speaker output and change the Audio Language (if available)
13.INFO	To display channel status or various program information of current channel
14.RECALL	Switch to the last viewed channel
15.ZOOM	Zoom in the selected picture
16.SUBTITLE	Switch to subtitle mode
17.●	Record current channel
18.⏸	Pause or resume play
19.■	Stop playback or recording
20.▶▶	Fast forward
21.◀◀	Fast backward
22.▶	Switch to next Item
23.◀	Switch to previous Item
24.REC LIST	Hot key for PVR file list
25.GOTO	To locate a position to play in multimedia playback
26.SCH.LIST	To display the schedule plan
27.ASPECT	Switch between different screen aspects(4:3 and 16:9)
28.A-B	To start A-B looping playback during video playback: Press this button once to mark Point A. Press again to mark Point B. Points A to B will be looped until <b>PLAY</b> or <b>STOP</b> is pressed.
29.FORMAT	Switch between the different resolutions

2.2 Front Panel



KEY	FUNCTION
1.	Turn on/off receiver
2.	Channel change(Up/Down)
3. USB port	Connect a compatible USB memory device for recording and playback
4. LED display	Displays the time or other relevant information

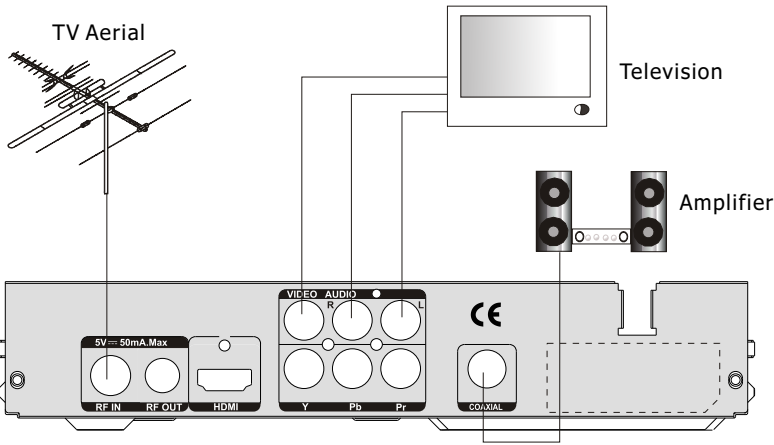
2.3 Rear Panel



CONNECTOR	FUNCTION
1.RF IN	Connect to terrestrial antenna
2.RF OUT	RF signal loop out
3.VIDEO	Connect to the TV's CVBS port
4.AUDIO R/L	Connect to the TV's audio port
5.Y/Pb/Pr	Connect to TV's Y/Pr/Pb ports
6.HDMI	Connect to TV's HDMI port
7.COAXIAL	Connect to the TV for digital audio output

2.4 Installation of receiver

The receiver can be connected using the example in the figure below. Possible connections from the unit to your TV are: AV, Composite, HDMI. When connecting external equipment to the unit, please refer to the documentation relevant to the external equipment for information on correct installation.



2.5 Main Features

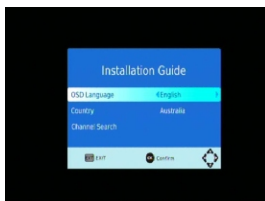
- Fully compliant with DVB-T standard
- Green Power(Standby<0.5W or <1W) supported
- 1080p/1080i/720p/570p/480p/576i/480i YPbPr/RGB component output supported
- HDMI 1.3 transmitter output interface with embedded or external HDCP key
- Resolution up to 1080p@60Hz
- PVR function supported,recording TV and playback media files with external storage devices (USB stick / USB HDD)
- Supporting pictures with JPEG,BMP,PNG
- Supporting music files with WMA. MP3. AAC (.wma, .mp3, m4a)
- Supporting movie files with MPEG1/MPEG2/H.264/VC-1/Motion JPEG (.flv/.rm/.rmvb/.avi/.mpg/.dat/.vob/.mov/.mkv/.mjpeg/.ts/.trp)
- Capable of playing picture and music at the same time

## 3. Unit Operation

### 3.1 Installation Guide

During initial setup, the installation guide menu will appear on-screen.

- Press Up and Down to select and setup OSD Language, Country;
- Press Left or Right to select the desired option for OSD Language and country;
- Press OK to Auto Search channels(recommended) or press MENU to enter main menu.



### 3.2 Channel Search

Press MENU, then press Right/Left to chose 'Channel Search', press OK to enter this menu to do channel search, press EXIT to quit;

- Press Up and Down to chose 'Country', then press Left and Right to change country option if necessary;
- Press Up and Down to chose 'Antenna Power', then press Left and Right to turn On or Off; if there is antenna with amplifier, please set On, otherwise set Off;

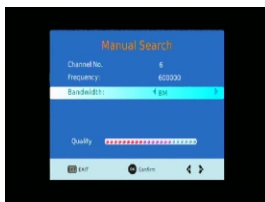
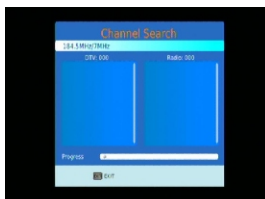
#### ● Auto Search

Press Up and Down to chose 'Auto Search', then press OK to enter Auto Search function to scan for all local channels.

#### ● Manual Search

Press Up and Down to chose Manual Search, then press OK to enter Manual Search function.

- In 'Channel No.', press Left or Right to chose a channel, or
  - In Frequency, enter the frequency value directly and in Bandwidth, press Left or Right to set a desired bandwidth to scan for a channel
- When a channel is selected, if there is enough signal, it will be indicated in the Quality bar. Then press OK to confirm search.



### 3.3 Program

Press MENU, then press Right/Left to chose 'Program', press OK to enter this menu to edit channels, press EXIT to quit;

In this menu, press Up and Down to chose Program Edit, EPG, Sort, LCN items as desired.

#### 3.3.1 Program Edit

In this menu, channels can be edited as follows (mark one or more channels with Red key, and move to new position, press OK to confirm):

- **Move(Red key):** change channel positions;
- **Skip(Green key):** skip one or more channels;
- **Lock(Yellow key):** lock one or more channels to password access only;
- **Delete(Blue key):** Delete one or more channels;
- **Fav(Fav key):** Mark one or more channels as favourite channels;
- **Rename(Recall key):** rename a channel;

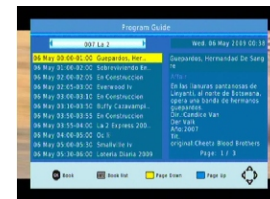
#### ● 3.3.2 EPG

EPG allows channel and programme list navigation, as well as other



options including detailed programme information, starting and end times for all available programmes up to 7 days in advance and allows scheduling of programme recordings.

- EPG can be entered by pressing the EPG key;
- Press the Left and Right key to switch between channels;
- Press Up and Down key to select an event in the left frame;
- Press Yellow or Blue key to Page up and down for detailed programme information;
- Press OK key to book selected event for viewing or recording;
- Press Info key for Book List to edit scheduled events.



#### 3.3.3 Sort

Use this option to sort the channel list according to your desire.

Press Left and Right key to chose to sort by Service ID, Service Name, ONID, LCN.

#### 3.3.4 LCN

Press Left and Right key to turn On or Off for LCN Sorting. If LCN is turned on, programmes will be listed according to their LCN.

### 3.4 Picture

Use this menu to set up Aspect Ratio, Resolution, TV Format options. Press Up and Down to select an item, press OK to enter an item's option selection.

#### 3.4.1 Aspect Ratio

There are several options to choose from:

Auto, 4:3 Full, 4:3 Letter Box, 4:3 Pan&Scan, 16:9 Wide Screen, 16:9 Pan&Scan, 16:9 PillarBox;

Press Left and Right to chose and press OK to confirm.

#### 3.4.2 Resolution

Press Left and Right to chose and press OK to choose the following options: 480i(NTSC), 480p(NTSC), 576i, 576p, 720p, 1080i, 1080P

#### 3.4.3 TV Format

Press Left and Right to chose and press OK to confirm following options: PAL, NTSC.



### 3.5 Time

Use this menu to set up time zone, time offset, sleep time etc.

Press Up and Down to select an item, press OK to enter an item's option selection.

#### 3.5.1 Time Offset

- Time offset can be set to Auto or Manual. Press Left and Right to chose and press OK to confirm your choice.
- When Auto is chosen, Country Region needs to be confirmed, press Left and Right to chose and press OK to confirm the option.
- When Manual is chosen, Time Zone needs to be confirmed, press Left and Right to chose and press OK to confirm the option.





### 3.5.2 Sleep

- Sleep can be turned On or Off; When it is On, the unit will turn itself off automatically if no buttons have been pressed on the panel or remote for a certain amount of time.
- Press Left and Right to chose and press OK to confirm the following options: Off, 1~12 Hours.

## 3.6 Option

Use this menu to set up OSD Language, Subtitle Language, Audio Language, Digital Audio and Audio Description etc. Press Up and Down to select an item, press OK to enter its option selection.

### 3.6.1 OSD Language

Press Left and Right to chose and press OK to confirm following options:

ENGLISH, CZECH, DANISH, FRENCH, GERMAN, ITALIAN, PORTUGUESE, SPANISH, SWEDISH, RUSSIAN etc.

### 3.6.2 Subtitle Language

This item can be set to On or Off to turn on or off subtitle display on screen. Press Left and Right to chose and press OK to confirm.

### 3.6.3 Audio Language

Press Left and Right to chose and press OK to confirm audio language type available in the programme.

### 3.6.4 Digital Audio

Press Left and Right to chose and press OK to confirm digital audio format:

Off, PCM, RAM HDMI On, RAM HDMI Off.

### 3.6.5 Audio Description

Press Left/Right keys to adjust the volume level.

#### Note:

Audio description refers to an additional narration track for the blind and visually impaired consumers of visual media. It consists of a narrator talking through the presentation, describing what is happening on the screen during the natural pauses in the audio, and sometimes during dialogue if deemed necessary. This function only can be activated when a programme contains an additional narration track.

## 3.7 System

Use this menu to set up Program Block, Restore Factory Default, Information, Software Update functions. Press Up and down to select a item, press OK to enter a item's setup or operation.

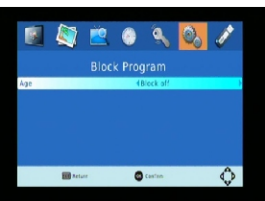
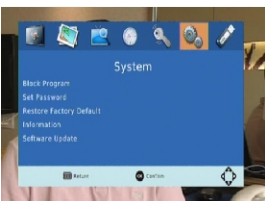
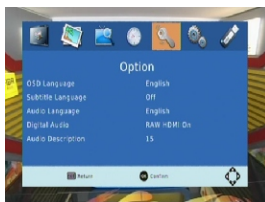
### 3.7.1 Block Program

Blocked channels trigger a password prompt. The channel is viewable only after the correct password is keyed in.

Default password is 000000.

Press Left and Right to chose and press OK to confirm Programme parental control level:

Block off, P and above, C and above, G and above, PG and above, M and above, MA15 and above, AV15 and above, R and above, Block All etc.



### 3.7.2 Set Password

To set a new password, the old password must be input first. After the password is verified, key in the new password twice to confirm.

If the password is forgotten, you can use the master password 888888 to reset your password.

### 3.7.3 Restore Factory Default

This operation will reset the unit to factory default settings and remove all channels and user preferences. A password is needed to activate this operation.

### 3.7.4 Information

This item shows information about the unit's model, software version, hardware version.

### 3.7.5 Software Update

To update software via USB, download and copy the updated software to a USB memory stick's root directory. Then plug it in and enter this menu. Press up and down to select the updated software usb\_upgrade\_all\_flash.bin, and press OK to start the updating process.

During updating, do not power off the unit.

After updating software, it's recommended to restore factory default and reboot STB.

## 3.8 USB

In this menu, user can activate or set up multimedia, photo configure, movie configure, PVR configure.

Press Up and Down to select an item, press OK to enter its operation or setup.

The unit will only support a USB

device with a FAT32 file system. It will not support NTFS file system.

### 3.8.1 Multimedia

There are four functions to choose before playback:

Music, Photo, Movie, PVR (playback recorded programmes).

Press Left and Right to chose and press OK to activate a function.

#### ● Music

Press Up and Down to chose a music file. Press OK to play, press Recall to return.

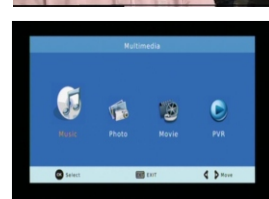
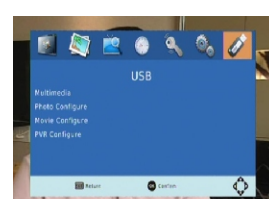
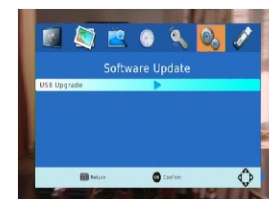
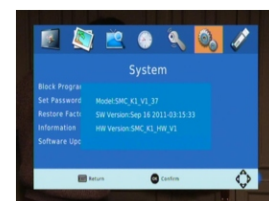
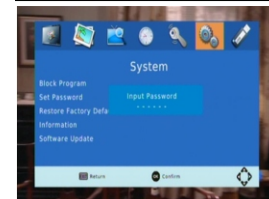
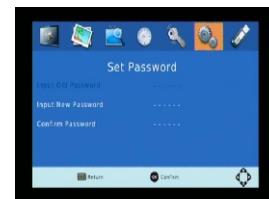
#### ● Photo

Press Up and Down to chose a Photo file to preview. Press OK to play, press Recall to return.

Press the Play key to view all pictures in a slide show, press Recall to return to thumbnail view.

#### ● Movie

Press Up and Down to chose a movie file, press the Red key to preview, press OK to full screen, press Recall to return.



### ●PVR

Press Up and Down to chose a recorded file, press the Red key to preview, press OK to full screen, press Recall to return.

Press Up and Down to chose a recorded file, press Yellow key to delete, press Green key to rename.

#### ● Resume Playback

Resume playback from where it was stopped for a number of recently played tracks. When the message appears on the screen, choose Resume to do this, or Exit to cancel. The last track to be played is highlighted in green.

### 3.8.2 Photo Configure

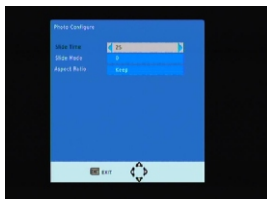
In this menu, there are three options to setup photo playback style and mode:

Slide Time: Set up time interval for slide play;

Slide mode: Random,0~59(transition styles);

Aspect Ratio: Keep (reserve picture original aspect) or discard (full screen);

Press Left and Right to chose and press OK to configure a option.



### 3.8.3 Movie Configure

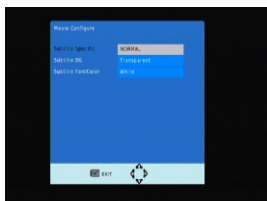
In this menu, there are three options to setup movie playback subtitle display method:

Subtitle Specific: NORMAL, BIG, SMALL(Set up subtitle font size);

Subtitle BG: Transparent, Gray, Yellow, Green, White(Set up subtitle background);

Subtitle FontColor: White, Black, Red, Blue, Green;

Press Left and Right to chose and press OK to configure a option.



### 3.8.4 PVR Configure

In this menu, there are two items to setup or display USB memory device's information:

Record Device: Set up record USB memory device and timeshift size;

Format: Format USB memory device;

Press Up and Down to chose a item, and press OK to enter the item.

#### ● Record Device

Disk: Press Left and Right to chose a USB memory device's disk.

Timeshift Size: Press Left and Right to configure time shift memory size(0.5/1/1.5/2.0/2.5/3.0/3.5/4.0GB).

#### ● Format

Format: Press Left and Right to chose a USB memory device's disk to be formatted.

File System: Press Left and Right to chose a file system(NTSC/FAT32) to be formatted.

After setting the format configuration, select Format and press OK to confirm and start the format operation. Press OK to continue, press Exit to cancel.

#### NOTE:

- Formatting will erase all data on the hard disk. Please back up all valuable data before formatting a disk. TEAC does not take any responsibility for loss of data.
- To obtain maximum performance for PVR functions, a USB 2.0 device is required. Please use a dedicated USB device for PVR functions. Do not edit recorded files on a PC. Before using the USB device for the first time, please format it. All data will be lost when formatting, please ensure that all valuable data is not within the USB device.

#### NOTE:

- TEAC cannot guarantee compatibility (operation and/or bus power) with all USB mass storage devices and TEAC holds no responsibility for any loss of data that may occur when connected to this unit.
- With large amounts of data, it may take longer for the system to read the contents of a USB device.
- Some USB devices and external hard drives may not be properly recognized.
- Even when they are in a supported format, some files may not play or display depending on the content.



## 3.9 Time Shift

Time shift, also known as pause live TV, is to pause a broadcast programme to continue to watch it later.

To use this function, the user should plug in a USB memory device first.

To activate time shift, press Pause key while watching TV. This will pause the TV picture and sound and begin recording the programme temporarily.

To resume watching a time shifted programme, press Play key to play, the paused programme will play from the paused point.

Time shifted programmes can be fast forwarded at speeds of x2, x4, x8, x16, x32, by pressing the Fast Forward key during time shift playback. If fast forwarding reaches the end of the recorded track, time shift will exit.

To stop time shift playback and return to live TV, press the Stop key.

## 3.10 Record

You can record a programme and save it as a PVR video file to watch it later. To use this function, plug in a compatible USB memory device first.

To start recording, press the REC key while watching TV.

During a recording, changing programmes is only allowed within the same frequency.

To stop recording the programme, press the Stop key.

To access recorded files, press the REC LIST key, or go from menu USB--multimedia-- PVR.

#### NOTE:

- During recording you are able to view other sub-channels broadcasted on the same frequency. If you try to change frequency, a message will appear asking you to confirm and end the recording or cancel.
- If the unit is on Standby mode, the scheduled recording will still proceed without the need to switch on the TV. You are also able to switch on the TV midway recording and proceed to view the program that is being recorded.



## 3.11 Scheduled Recording

You can book programs for recording when a USB deice is connected to the USB socket on the front panel.

Enter EPG by pressing the EPG key. Select the program you wish to record using the LEFT/RIGHT keys and the UP/DOWN keys to highlight the program.

Press the OK key to book the highlighted program for recording. A schedule window will appear that allows you to adjust the recording parameters as follows:

**Channel type:** Select the recording for TV or Radio.

**Channel Number:** Specify the channel by number.

**Name:** This displays the name of the channel selected above, can only be changed by selecting another channel number.

**Start Date:** Select the starting date of the recording in DD/MM/YYYY format.

**Start Time:** Set the start time for the recording in HH:MM

**End Time:** Set the end time of the recording HH:MM

**Repeat:** You can select how often you would like the recording to occur:

Once/Daily/Weekly

**Mode:** You can select RECORD to make the unit record according to your previous settings or select View to change to another channel at the specified times.

Use the UP/DOWN/RIGHT/LEFT keys to navigate through the schedule window and adjust the parameters, use the Numeric buttons to enter figures such as dates and times.



Programs booked for recording will be marked. Any recordings that are to occur daily or weekly will not be marked due to the static nature of the EPG, however the booked recordings will appear in your recording schedule in the EPG screen.

While still in the EPG window, press the INFO button to view a list of the programs you have booked for recording. In normal mode, press the BLUE button to access the record schedule list.

In the record schedule list you can add (RED button), Edit (GREEN button) or Delete (BLUE button) schedules on the list. Press EXIT to exit the record schedule list.

#### NOTE:

- During recording you are able to view other sub-channels broadcasted on the same frequency. If you try to change frequency, a message will appear asking you to confirm and end the recording or cancel.
- If the unit is on Standby mode, the scheduled recording will still proceed without the need to switch on the TV. You are also able to switch on the TV midway recording and proceed to view the program that is being recorded.

Once the program has been set to record, you can view a list of programs scheduled for recording by pressing the BLUE key on the remote control.

## 4. Troubleshooting

Problem	Possible Causes	What To Do
No display light up on front panel	Power Cord is not firmly plugged	Check to make sure power cord is plugged properly into power socket
No sound or picture, but the front panel LED Display is OFF	The unit is in standby mode	Press the standby button.
No sound or picture	The external antenna is not installed properly	Adjust the antenna. Check the Signal Level in the Channel Search Menu
Bad picture/Blocking Error	No signal or weak signal	Check the cable connections, antenna and other equipment connected between the receiver and antenna. Use an RF amplifier for the external antenna to improve signal.
	Signal is too strong	Connect a signal attenuator to the RF input
No picture(Video)	The system is connected by AV cable and TV is not in AV/EXT mode.	Switch TV to AV mode
No picture(Video)	The system is connected by RF cable and TV is in TV mode.	Check the VHF/UHF channel fixed in your system and tune the VHF/UHF properly.
There is interference on your digital channel.	The system is connected using RF cable and the output channel of the receiver interferes with an existing terrestrial channel or video signal.	Change the receiver output channel to a more suitable channel or connect the system using another AV cable.
The RCU is not working.	Out of battery	Change the battery
	RCU is aimed at wrong direction	Aim the RCU at the unit, and remove obstacles between the front panel and RCU

**Note:** If you still cannot resolve the problem with above reference, please contact TEAC Support Hotline 1300 553 315.

## 5. Specification

### TRANSMISSION STANDARDS

DVB-T,MPEG-2,MPEG-4,H.264

### DVB-T RF INPUT/DEMULATION

Connector Type	IEC-FeMale x1 for RF input, IEC-Male x1 for RF Loop
Input Frequency	(UHF)470~862MHz,(VHF)170~230MHz
Bandwidth	6,7,8MHz
Signal Input Level	-78~-10dBm
Input Impedance	75Ohm
ANT Power	5V(On/Off),Imax=50mA
Demodulation scheme	QPSK,16-QAM,64-QAM
Code Rate	1/2,2/3,3/4,5/6 or 7/8
Guard Interval	1/4,1/8,1/16 or 1/32
Transmission Mode	2k or 8k
Reed Solomon	204,188,t=8
Demodulation Type	COFDM,fully compliant with DVB-T Standard

### AV output interface

Video Output	HDMI, RCA for CVBS/YPbPr
Audio output	Stereo Audio L/R output interface by RCA,Coaxial for S/PDIF

### AUDIO/VIDEO PROCESSING

Video decompression	MPEG-2 MP@HL, ITU-T H.264 MP&HP@L4.1, VC-1 MP@HL and AP@L3, up to 1080p@30fps; Option for RealMedia Decoder, up to 720p@30fps; HW JPEG decoding
Resolving rate	PAL-25 frame@720*576 and NTSC-30 frame@720*480 for CVBS output, 1080p/1080i/720p/570p/480p/576i/480i for YPbPr/ RGB component output, HDMI up to 1080p@60Hz
Signal compatability	Support conversion for different video formats and frame rates
Video Format	4:3,16:9,By Pan & Scan and Letter Box conversion
Audio decompression	MPEG-1,MPEG-2(Layer I/II),MP3,WMA, AAC-LC, Option for AC-3, E-AC-3 and HE-AAC 5.1 multi-channel decoding
Audio output mode	Stereo, Joint stereo, Mono, Dual Mono; HDMI, S/PDIF audio for PCM or RAW

### DATA SERVICE PORT

Connector	USB
Data protocol	USB2.0 interface

### MEDIA FEATURES

Picture	JPEG,BMP,PNG
Music	MP3
Movie	AVI, XVID
File management system	NTFS,FAT32,FAT16; Copy,delete operations supported

### POWER SUPPLY

Type	AC mode
AC Input for adapter	100-260VAC@50/60Hz±5%
Power consumption	Max 10W
Insulation resistance	More than 10MR at 500Vdc,Ambient conditions of 28±2%&70%RH
Standby Voltage/Hi-Pot	l/p to O/p:3KV(1 min)
Temperature Rise	<75 on winding&core;<50 on casting At 264Vac@50Hz
Safety Standard	Designed to meet MEPS

<b>MICROPROCESSOR</b>	
Microprocessor	Mstar MSD7818(MIPS34K CPU with target speed 550M built in)
Flash	4Mbyte
DDRII Memory	64Mbyte
<b>PHYSICAL CHARACTERISTICS</b>	
<b>Front Panel</b>	
Keys	3 Key for Power On/Off,Up,Down
Indicators	Option for LED Indicator for Power On/Off
Remote Control input	Infra-red receiver
Display	4 Digits 7-segment LED display
Connections	1xUSB2.0 interface
<b>Rear Panel</b>	
Connections	2xIEC connector for RF in and RF Loop HDMI 1.3 interface,up to 1080p 1xAV RCA6(YPbPr,CVBS,L/R)
<b>Weight and Dimensions</b>	
Net Weight	0.52 KG
Gross Weight	0.89 KG
Unit Dimensions	220 x 135 x 40 MM
Gift Box Dimensions	232 x 243 x 56 MM

\* Subject to change without notice.

\* Weight and dimensions are approximate.